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NOTICE OF ALLOWANCE AND FEE(S) DUE

41505 7590

10/02/2008

WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) CIRA CENTRE, 12TH FLOOR

2929 ARCH STREET PHILADELPHIA, PA 19104-2891

EXAMINER PHAM, KHANH B

PAPER NUMBER ARTHNIT

2166 DATE MAILED: 10/02/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/752.384 01/05/2004 Frank David McSherry MSFT-5046/306098.01 6813 TITLE OF INVENTION: PERSONALIZATION OF WEB PAGE SEARCH RANKINGS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This is appropriate. All further c indicated unless corrected maintenance fee notificati	orrespondence including d below or directed oth	or transmitting ig the Patent, a terwise in Block	the ISSI Ivance o : 1, by (JE FEE and PUBLICATI rders and notification of n a) specifying a new corres	aintenance fees woondence address;	ill be i and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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PHILADELPHIA	A, PA 19104-2891							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	ON NO. FILING DATE			FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/752,384 TITLE OF INVENTION:	01/05/2004 PERSONALIZATION	OF WEB PAGI	SEARC	Frank David McSherry CH RANKINGS		MSF	T-5046/306098.01	6813
APPLN, TYPE	SMALL ENTITY	ISSUE FEE	DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510		\$300	\$0		\$1810	01/02/2009
EXAMI	NER	ART UNI	Т	CLASS-SUBCLASS				
PHAM, KI		2166		707-003000				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha /122) attached. cation (or "Fee Address' or more recent) attach // RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of Correspo 'Indication form ed. Use of a Cu	ndence stomer	(1) the names of up to or agents OR, alternative or agents OR, alternative 2.) the name of a single registered attorney or a 2 registered patient attorney to a 12 registered patient attorney or a 12 registered patient attorney or 14 register of 14 register of 15 register of	ely, firm (having as a gent) and the name news or agents. If or inted. e) tent. If an assignates is ignment.	members of up no nam	er a 2er a 2er is 3entified below, the do	ocument has been filed for
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- 11	SMALL ENTITY statu	is. See 37 CFR I		☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the re	runneation Fee (if requeeords of the United Sta	ured) will not b tes Patent and T	accepte rademark	d from anyone other than the Office.	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature _					Date			
Typed or printed name				Registration No.				
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vi	tion is required by 37 C ality is governed by 35 application form to the ms for reducing this bur rginia 22313-1450. DC	FR 1.311. The i U.S.C. 122 and USPTO. Time den, should be NOT SEND FI	nformati 37 CFR will vary sent to th EES OR	on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	he publ ninutes mment: Tradem . SENI	te which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa O TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/752,384	01/05/2004	Frank David McSherry	MSFT-5046/306098.01	6813			
41505 7	41505 7590 10/02/2008			EXAMINER			
WOODCOCK V	VASHBURN LLP (M	PHAM, KHANH B					
CIRA CENTRE,			ART UNIT	PAPER NUMBER			
2929 ARCH STRI PHILADELPHIA		2166 DATE MAILED: 10/02/200					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 381 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 381 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/752.384 MCSHERRY, FRANK DAVID Notice of Allowability Examiner Art Unit 2166 Khanh R Pham -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

 This communication is responsive to amendment filed 6/17/2008. The allowed claim(s) is/are 1-8, 10-14 (Renumbered as 1-13). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) \square All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date

(b) including changes required by the attached Examiner's Amendi Paper No./Mail Date	ould be written on the drawings in the front (not the back) of					
5. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
I. Notice of References Cited (PTO-892)	Notice of Informal Patent Application					
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413), Paper No./Mail Date					
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendment/Comment					
I. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance					
of bloograf waterial	9. Other					
Khanh B. Pham/ Primary Examiner						
Art Unit: 2166						

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Art Unit: 2166

EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Joseph Oriti on September 16, 2008.

The application has been amended as follows:

In the claims:

Claims 4, 10, 13 have been amended as follows:

4. (Currently Amended) The system of claim 1 wherein the page-grading engine grades the web pages as objects from an interconnected collection of weighted objects, the weights of the objects described by [[a]] the personalization description v, and the interconnection of the objects described by a description P, the page-grading engine:

applying [[a]] the grading function Q ' to the <u>personalization</u> description v for the objects to determine a set of grades for the objects;

assigning at least one object the corresponding determined grade for that object; wherein the grading function Q' approximates an ideal grading function Q, wherein non-zero entries of a vector indicative of the personalization description v correspond at least to a favorites list associated with a user's web browser and wherein applying ideal

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objects; and

grading function Q to the <u>personalization</u> description v produces ideal grades with respect to description P for every object in the interconnected collection of weighted

rendering an indication of at least one graded object.

10. (Currently Amended) The system of claim 1 wherein:

the page-grading engine further determines a grade for at least one of the objects using Q'; wherein the weights of the objects are described by [[a]] the vector indicative of the

personalization description v, and

non-zero entries of the vector v correspond at least to a favorites list associated with a user's web browser, the interconnection of the objects is described by a matrix P, and the ideal grade of object i with respect to matrix P equals Q[i] times v where Q[i] is the ith row of an ideal matrix Q.

13 (Currently Amended) The system of claim 1 wherein the page-grading engine grades the web pages as objects from an interconnected collection of weighted objects, the page-grading engine comprising:

[[a]] the personalization description v of the weights of the objects, wherein nonzero entries of a vector indicative of the description v correspond at least to a favorites list associated with a user's web browser;

a description P of the interconnection of the objects; and

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a processor for approximating, using the ideal matrix Q and the approximation matrix Q', an ideal grading function Q with an approximate function Q', where applying ideal grading function Q to the personalization description v produces ideal grades with respect to [[a]] the description P for every object in the interconnected collection of weighted objects, and for assigning at least one object the grade produced for that object by an application of Q' to v.

Allowable Subject Matter

- 2. Claims 1-8, 10-14 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Prior art of record do not teaches the combination of claimed element including "the page-grading engine grades the web pages as grading objects from an interconnected collection of weighted objects by approximating the matrix Q with respect to a parameter k, by computing a matrix U_k , computing a matrix V_k , computing a diagonal matrix S, and defining Q' as the matrix product $V_k S U_k^{\mathsf{T}}$ as recited in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2166

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-4116. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Khanh B. Pham/ Primary Examiner Art Unit 2166

September 17, 2008